VGS Marketingservice GmbH
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instruction manual
Installation and operating instructions for MaxxLuxx® products

A. General

1. Information about this instruction

Please note the following instructions for installation and use of your MaxxLuxx® product in order to ensure a successful, safe and durable function.

2. Product description

MaxxLuxx® products are light objects made of acrylic and / or other materials with incorporated LEDs that are sealed with a flexible resin and thus protected against negative environmental influences. MaxxLuxx® -light objects are suitable for indoor and outdoor use. The requirements are met at least in accordance with IP65, up to IP 68 is possible.
MaxxLuxx® light objects can be ordered individually or pre-assembled on a substructure for example on a cover made out of Dibond (an Aluminum Composite Material).

3. Usage

01. MaxxLuxx® objects are used for lighting, advertising or decorative purposes. For other applications, please contact us. If the objects are not used in accordance with the relevant application areas or requirements, this can lead to loss of warranty respectively guarantee.

02. The light objects are designed for the purposes above and therefore are not suitable as toys for children. Therefore please keep your children away from these objects.

4. Safety instructions

01. The electrical connection according to the included wiring diagram should be performed exclusively by a qualified electrician to ensure compliance with all regulations.

02. It is not allowed to pull on any cables. The individual light objects may therefore not be transported on the connection cables. If the casted power cable is not properly fixed in the light object, please contact us before the commissioning of the system.

03. For assembly and application please orientate yourselves on the usual ESD protection requirements for LEDs.

04. We recommend the use of the proposed power supply (converter) by VGS Marketingservice GmbH to supply your light objects in order to prevent malfunction or damage. In any case, only power supply units (converter) which meet the relevant safety regulations and provide a maximum effective current of 3A in case of a malfunction must be used. Please also note that due to improper installation, improper operation, incorrect power supplies (converters) or interventions in the mechanical respectively electrical construction, the warranty or guarantee claims can be lost respectively serious security problems could arise.

05. The cable connections between the light objects and the power supply (converter) must be insulated, competently protected against the ingress of water and fixed conform to the regulations. For outdoor usage only lines according to standards must be installed which among others need to have an UV-protection.

06. Please note that acrylic glass is expending in a different way as e.g. metal, stone, wood, concrete etc. when it is warm (respectively contracts when it is cold) and stress resulting from this has to be avoided.

Please also note, that particularly with large light elements acrylic objects expand differently with heat (for example, solar radiation or other heat sources).

It also has to be avoided that water accumulates between the pilaster strips and the installation ground (respectively the mounting parts).

B. Mounting and application of MaxxLuxx® luminous objects

Use the existing mounting points on the light objects. MaxxLuxx® light objects are provided with blind holes and threads on the back, you can see the mounting template and their exact position and dimensions in the installation file.

Note: The introduction of additional holes or the changing of existing holes in light objects may lead to irreparable damage to the light objects and to void the warranty.

If you want to implement other mounting options than those specified by us, the technical conditions have to be resolved by you.

1. Mounting and application of MaxxLuxx® luminous objects

01. The light objects are supplied with stripped cable ends and without connecting terminals. Please pay attention to the respective marking of the veins. You have to consider the requirements in the area for safety extra low voltage (SELV). Here, for example, connections may be made by soldering. The insulation is then made by heat shrink tubing with adhesive or press connection using butt connectors (for example, company Klauke). The insulation of the butt connector needs to be shrunken.

02. Please note the information on the wiring diagram that is included in every delivery at all cost. If you did not receive one, we ask you to contact us before connecting the light objects. While connecting several light objects, mount the power supply (converter) at a central location as close as possible to the light objects and choose a cabling with preferably the same cable lengths to all light objects in order to avoid differences in brightness between the light objects.

03. The cross section and the type of the supply cable from the power supply (converter) to the light objects must be conform to requirements as well as to the valid international standards. For long cable lengths please ask us for the required cable cross-section.

04. Do not damage neither the power supplies (converter) nor the incoming and outgoing cables and do not use damaged parts.

05. To prevent hazards, a damaged cable in a light object, must be replaced exclusively by the manufacturer, his authorized service center or a qualified person.

06. Do not disable any protection provided by the power supply manufacturer such as the protective earth conductors. Note the specified protection class on the identification plate of the power supply when mounting the power supply (converter). The usable temperature range of our suggested power supplies (converter) at 230VAC is usually -25 ° C to +50 °C.

For input voltages below nominal 230VAC please ask us for the temperature ranges directly.

07. The power supplies (converter) must not to be installed in areas where water can accumulate. Provide adequate air circulation to dissipate heat.

2. Installation of Dibond-covers with MaxxLuxx® luminous objects

01. Mounting of the cover: For this purpose the rear plate of the cover has to be unscrewed from the cover and screwed to the desired position on the wall. The back plate shall be provided with at least four through holes M4. For mounting on the wall the necessary fasteners have to be chosen based on the local conditions, however they have to be at least M4. After that the cover is placed over the mounted back plate and then bolted on to this.

02. Mounting of the power shelf: For mounting an included power supply housing, please use the mounting holes with the mounting screws holding the cover for the power shelf. These are located outside of the power supply housing. Therefore appropriate fasteners have to be used based on the underground.
The primary power supply has to be executed using the included clamp connection in the housing of the power supply according to EN 60998. Please mind that the conductor cross-section must be appropriate to the power and must be at most 2,5mm² per vein for a 3-vein wire. For this electrical work you have to follow in particular the safety instructions in section A.4.01.!

3. Operation

Please comply with the prescribed test and revision periods for electrical appliances and equipment.

Furthermore please take into account that LEDs age significantly faster when they are operated at high temperatures (for example, in the summer during direct sunlight).
For this reason, the luminous objects at an outdoor installation have to be operated with a dimmer switch or a timer.

Cleaning Instructions

Regular cleaning of the objects is recommended as needed. Paint and acrylic must not be cleaned with aggressive or strong detergents, such as alcohol or steel wool. Material compatibility is to test on an inconspicuous place before use. We recommend mild soapy water for cleaning.

4. Error Analysis

Error	Solution
The light objects are not illuminated.	Check if the power supply (converter) receives a voltage of 230V.
	Check the secondary voltage of the power supply (converter).
The light objects are flashing.	The power supply (the converter) is not correctly dimensioned or there is a short circuit.

If you have any problems with your light objects, you should contact us. After a root cause analysis, a decision is made, whether a repair on site is possible or a return shipment to VGS has to be performed.

5. Disposal instructions

Regional disposal regulations for lightings have to be respected.

6. Other notes

A wiring diagram for MaxxLuxx® light objects and power supplies (converter) is included in each shipment.